

# Janet Li

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Highly motivated and passionate software engineer with experience developing front-end and full-stack web applications, as well as an interest in data visualisation.

## SKILLS

### Languages

- Python
- JavaScript/TypeScript
- R
- HTML5
- CSS/SCSS

### Technologies

- React/Next.js
- Express.js
- PostgreSQL
- Git

## EXPERIENCE

### Deep Genomics

Software Engineer

July 2022 - Present

- Implemented accessible user interfaces and data visualisations for an internal target discovery platform using React, Typescript and MaterialUI to improve the speed and productivity of target curation
- Supported the upgrade of an internal web application by developing core infrastructure with React and TypeScript, as well as a comprehensive e2e test suite using Cypress

### Canada's Michael Smith Genome Sciences Centre

Bioinformatics Research Assistant

Sept. 2019 - Apr. 2020

- Extended the open-source bioinformatics software tool [Tigmint](#) (Python, GNU Make) to take long sequencing reads as input for identifying and correcting misassembled contigs in genome assemblies
- Implemented a continuous integration pipeline with Azure Pipelines and Github Actions to run integration tests and enforce code styling

## EDUCATION

### University of British Columbia

MSc. Bioinformatics

Sept. 2020 - June 2022

- Developed robust bioinformatics software tools in Python for genome assembly correction and comparative genomics
- Awarded the British Columbia Graduate Scholarship consecutively for the Sept. 2020 - Aug. 2021 and Sept. 2021 - Aug. 2022 academic years

BSc. Applied Biology

Sept. 2015 - Apr. 2020

- Awarded the F. E. Buck Prize for the Sept. 2019 - Apr. 2020 academic year and the Gordon Robert Smith Scholarship for the Sept. 2018 - Apr. 2019 academic year

## PERSONAL PROJECTS

### [Biru](#) ([source code](#))

Sept. 2021 - Dec. 2021

- Designed and implemented a responsive and accessible user interface using Next.js and SCSS
- Developed a RESTful API using Express.js, persisting data in a PostgreSQL database with the Sequelize ORM, including a session-based authentication system with express-session and Passport.js
- Integrated Cloudinary for managing image uploads and storage

### [Vibe Check](#) ([source code](#))

May 2021 - June 2021

- Designed and developed a responsive user interface in Next.js that allows users to determine their mood from their Spotify listening history at different time scales
- Implemented an Express.js server to analyse data, authorise users and fetch their listening data using Spotify's OAuth2.0 framework and Web API